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NOTICE OF ALLOWANCE AND FEE(S) DUE

22852

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02/05/2010

EXAMINER

ALSTRUM ACEVEDO, JAMES HENRY

PAPER NUMBER

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP

901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413

1616

ART UNIT

DATE MAILED: 02/05/2010

AP	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/538,837	06/13/2005	Chikamasa Yamashita	04676.0183	5653

TITLE OF INVENTION: NOVEL DRY POWDER INHALATION SYSTEM FOR TRANSPULMONARY ADMINISTRATION

APPLN. TYI	PE SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisio	nal NO	\$1510	\$300	\$0	\$1810	05/05/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 22852 7590 02/05/2010 Certificate of Mailing or Transmission FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNERhereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413 (Depositor's name (Signature (Date APPLICATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE 10/538,837 06/13/2005 Chikamasa Yamashita 04676.0183 5653 TITLE OF INVENTION: NOVEL DRY POWDER INHALATION SYSTEM FOR TRANSPULMONARY ADMINISTRATION APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 05/05/2010 **EXAMINER** ART UNIT CLASS-SUBCLASS ALSTRUM ACEVEDO, JAMES HENRY 1616 128-202170 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/538,837	06/13/2005	Chikamasa Yamashita	04676.0183	5653	
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			ART UNIT	PAPER NUMBER	
901 NEW YORK WASHINGTON,	The state of the s		1616 DATE MAILED: 02/05/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 690 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 690 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/538,837	YAMASHITA ET AL.
Notice of Allowability	Examiner	Art Unit
	JAMES H. ALSTRUM ACEVEDO	1616
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS
1. This communication is responsive to 11/18/09.		
2. ⊠ The allowed claim(s) is/are <u>6-9 [now claims 1-4]</u> . —		
 3. Acknowledgment is made of a claim for foreign priority uner a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the delow. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitive INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers. 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the depose attached Examiner's comment regarding REQUIREMENT for the priority of the priority documents and the depose attached Examiner's comment regarding REQUIREMENT for the priority documents and the depose attached Examiner's comment regarding REQUIREMENT for the priority documents and the priority documents are completed as such in the depose attached Examiner's comment regarding REQUIREMENT for the priority documents and the priority documents and the priority documents are completed by the priority documents and the priority documents are completed by the priority documents and the priority documents and the priority documents are completed by the priority documents and the priority documents are completed by the priority documents and the priority documents and the priority documents are completed by the priority documents are completed by the priority documents are completed by the priority documents and the priority documents are completed by the priority documents and the priority documents are completed by	been received. been received in Application No. cuments have been received in this cuments have been received in this of this communication to file a replication. Itted. Note the attached EXAMINE is reason(s) why the oath or declar to be submitted. It be submitted. It is application on the drawner header according to 37 CFR 1.12 is of BIOLOGICAL MATERIAL	s national stage application from the y complying with the requirements R'S AMENDMENT or NOTICE OF ration is deficient. D-948) attached Office action of vings in the front (not the back) of 1(d). must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 11/24/09 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal 6. Interview Summar Paper No./Mail D 7. Examiner's Amend 8. Examiner's Stater 9. Other	ry (PTO-413), ate

Election/Restrictions

The restriction of record is maintained. The withdrawn claims are not rejoined because these claims are not commensurate in scope with allowed claims 6-9 or do not claim a method of using or making the allowed apparatus. Regarding claims 14-21, it is noted that these claims were not included in a specific group at the time of restriction; because claims 14-21 did not claim a recognized class of statutory subject matter (i.e. "use claims" are not a recognized class of statutory subject matter).

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Charles E. Van Horn, Esq. on January 27, 2010 at ~4:23 pm EST.

The application has been amended as follows:

(1) Cancel claims 1-5 and 10-21.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: the prior art does not teach or fairly suggest a dry powder inhalation system comprising (1) a vessel housing a freezedried composition in a non-powder cake form characterized by (i) a disintegration index of 0.05

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or more and (ii) a property of becoming fine particles having a mass median aerodynamic diameter of 10 microns or less or a fine particle fraction of 10% or more upon receiving an air impact having an air speed of at least 1 m/sec and an air flow rate of at least 17 ml/sec and (2) a device comprising a member capable of applying said air impact to the freeze-dried composition in said vessel and a member for discharging the freeze-dried composition that has been made into fine particles. The closest prior teaching an inhaler containing a cake is U.S. Patent No. 1,950,925 to Fredrick Lobl, which discloses nasal inhalers designed to administer medicinal vapors of an active agent, such as menthol (pg. 1, lines 88-90), which is a solid, or any other material that gives off vapors (Id.). At page 1, lines 90-96, Lobl teaches that the medicament may be in a cake form, which may be supported by the ribs of the inhaler and permitting a flow of air around the cake and between the cake and the walls of the receptacle. Lobl's teachings do not contemplate the flow of air causing the medicament cake being converted into fine particles (i.e. an aerosolized powder). Thus, Lobl's teachings do not fairly suggest the claimed dry It is noted that Applicants' amendment specifying that the powder inhalation system. composition is in a non-powder cake form and not that it merely comprises a non-powder form overcame the previous rejections based on Yang (U.S. Patent No. 6,505,537).

Upon further consideration it was determined that an obviousness-type double patenting rejection over copending Application No. 12/202,220 could be made, but because the instant application is the earlier filed application and is in condition for allowance, the instant application will be allowed to issue and an obviousness-type double patenting rejection will be made in 12/202,220 as appropriate. See MPEP § 804(B)(1). Thus, claims 6-9 are found to be patentable over the prior art.

Application/Control Number: 10/538,837

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to James H. Alstrum-Acevedo whose telephone number is (571) 272-5548. The examiner is on a flexible schedule, but can normally be reached on M-F ~10am~5:30 pm, and Saturdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on (571) 272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J.H.A.-A. Patent Examiner Technology Center 1600

/Johann R. Richter/ Supervisory Patent Examiner, Art Unit 1616